

AMENDMENTS TO THE SPECIFICATION:

Page 5, amend the paragraph beginning at line 14 as follows:

Figure 5 shows a mask useful for another embodiment of the invention and illustrates how the invention can be used to give indications that an object is within distinct range bands; and

Figure 6 illustrates a light source comprised of a plurality of LEDs.

Page 7, amend the paragraph beginning at line 16 as follows:

The light source 24 is an infrared emitting light emitting diode (LED). Infrared is useful as the array of projected spots need not interfere with a visual image being acquired and infrared LEDs and detectors are reasonably inexpensive. However the skilled person would appreciate that other wavelengths and other light sources could be used for other applications without departing from the spirit of the invention. Figure 6 shows an embodiment wherein the light source comprises an array 62 of LEDs.

Page 11, amend the paragraph beginning at line 31 and continuing to page 12, line 3 as follows:

Using a spot projector as shown in figure 2 to produce such a modulated output would simply involve replacing the single LED 24 with a row 64 of 4 LEDs (such as shown in Fig. 6) each modulated at a different frequency. Modulating the frequency in this way thus allows incremental range discrimination but reduces the density of coverage to the scene as each spot can only be used for one of the possible ranges. Alternatively where an input mask is used for the input to the kaleidoscope the mask may comprise a plurality of windows each window comprising a modulator operating at a different frequency.